Snaugural Difsertation on the Paper March 1828 Medical Desperties Suphorbin Spracuanha Maurice Bushy "Earny enhydrouse estigen, should be intensed in the examination of the modural presentions of his diversity "



Inaugural Ofsay &c. The Euphorbia Specacuanta is the plant, I have been induced to select from the numerous catalogue of important in digenous regetables which we popula, as the subject of my thesis -The prejudice which generally exists against the employment of our native productions, has long ban a source of serious regret to the medical profipion, as well as to the more enlightened portion of the community - Every effort to intout the effects of this popular delusion, which so evidently netards the improvement of medicine, should be afriduously resorted to . Under this imprefice the practical part of this digrepion will be related with an eye to candow and not to the superior properties of the plant. I have for the cases to decide whether the good qualities of this truly amorphous and varying little regotable, hear a sufficient ratio to its imperfections, to entitle it to a more conspicaous plation in the materia medical



The grown Eigheskie, according to Discouration was in named after Eightenberg, physician be Mode, long of Sychology, I have a consequent of the elast Someons in the elast physician and manager in the elast menogenia; and to plan law and Mattell in the class menocense, we der more delphinamed Jonesia character.

Specific ch,

Course wife or semi-send, gladient; because opportunity or francestate is him as lancestate; but a lancestate is him as lancestate; or francestate is him as lancestate; or fillingly many please of the forms and many finds of forms in the descript of forces, in Chairm and many finds of the soope, get from the superioritation of the most abstrated to between the time the implement in acquaints is exclusively indigenous to the tentest of the tentest of the superiority in digenous to the tentest of the superiority in digenous.



The only setuation in which I have found the imphoretical plantifity is in an old field at lossing 20 they my maken from an old field of the sealing 20 they my maken from which plants I believed a replicating grantify of the seal to present my injuries solding to be makened qualities to present my injuries solding to be makened qualities. I again true it is an exercism man bladem Ah Work Those it was not in the same proframe on at loop May Those it was not in the same proframe on at loop May Those it was doubt beneved but I write about the proframe to be maken properly to be such the mount of the same that my holes on a such mount of the Meeting of Meeting Seeing to December of the Meeting states.

It is progetably am explains, sawing smuch in the shape, and colonies of the leaves and emighe castly be smithible by present of humber betweened knowledge, for a different species of the dame genus. It is presented flowering from agult to be designed in a fundy burne both, and grows to be broadly burned from the considerable when the growned is to prove as searing to knowledge days that my their species of agult atom.



The root of the explorers is the part which has claimed my particular attention. It is perennial as before observed varying from three to six feet in length, with very little taper; the diameter being almost as great three or four fut from the plant in some bustances as at its commencement. It is of a yellow colour, and is somewhat beboralated in places. Just defore it emerges from the top of the ground, the main root divides into a pumber of smaller ones, about the size of a quilt; those small outs on leaving the surface, constitute the external appearance of the plant - The dried root is light and brittle germerally consisting, particularly if an old speamen of wrody film in the centre. Its colour gregish rather a cream colour on fracture. Taste sweetish but not at all impleasant, being rother farmacions -Daron Stoorek and Puiko were probably the first to observe that our plant possesses an emetic quality -B. S. Barton notions it in his collections, but he chooses to over demn it as a dangerous remedy a Bigelow speaks of it, but I have not been able to ascertain his



conception of it as a medicine, matter supposes its chemical composition to be a substance of the nature of exoutehour, I roluble in other but not in alcohol , verin, necess, and fewle ?" The existence of each thou or something similar to it, cannot be doubted; for by exercistion between the pingers of the milky juice, which exides from the plant upon fracture in the green state, it is converted into a substance much allied in its unsible properties to caoutehous. A circumstance worthy of men ark transpired wholst engaged in my experiments, which goes in a measure to prove that the unetic principle exists to a considerable degree in the multy exudation as well as in the substance of this am orphous root for the purpose of a complishing the object of my theses previously to drying it, it was washed in water, that it night be cleaned of the dist which adhered to it so. The water our dered milhy by this procep was powed off and eagerly quaffed up by a block of babbling geers, that were stationed along the gutter, The consequence was in a few minutes afterwards, a perfect



espation of this works, enter product are assuming so much on this was not enabled by this own experts to regain the field. Elemente in a few hours they seconded from their evident frostration, but look due care to them the short, which had bon the caree of so much solvitude on the part of their stomachs.

It may be that the fluid popular none of the emitse costs than any other portion of the plant; but not having it is my house to collect a superior guaratity of the joins, to calculate in a single case, Than sort han able to associous the fact which would shaw been so desirable.

How the America of my father so will as myself demostic animals generally aniet wiling the inflored is wealt the Hap, which fact on it with judicity and people injunity, kinging it down wherein they are allowed to sun on

Having detailed though not very mountably or accurately the batascial discomplain and matural history of the expherica operaxicans, I shate now make a few experimental eterordices and also with its practical application to disperent from a federate in



Experiment st, The first preparation that I made of the suphorbia, was a powder of the dried root, which I effected by paping the previously pulverized nort, through a pow der sieve Car Ind I next formed a vinous brichere of the root, as follows: - Bruised root supher ipreas "5 j Digested fourtree days as directed in the Dispensatory for the vinum ipecas, stravied and put aside for use Expert 30. Sput Bij of the fresh buised root to our pint of alcohol, digisted seven days, waporated, and the result was 53 yes, of extract, of a strong resinous tark and smell .. . This tincture before evaporation was of a hate crange or straw colour, which evlour was defripated by nutrie or sulphure aid a Cath addition of water to the alcoholis tenetime, a precipitation took place; in the course of a wak this precipitate fell to the bottom of the refer and by it being again polable in alcohol in dirate the presence



Durling of gots charged the traction to a redshift from Expert held, To Fif of find truesed over I have seen pint of booting water, manufact land days, bouled down one half, and composated in 125 get of calcult was the name.

To this 105 gos of estract Indded succession quantities followed until it ceased to be coloured; and upon weighing the remainder it appeared the alcohol had taken up , 45 gos, learning 60 ger which was peopertly soluble in water except a small portion of ligneous matter, The 60 grs in the above experiment semaning after the application of the alcohol, are don blip principally gum. Extraction matter most probably exists to some extent in it; but set having the proper tests, to ascertain this supposition or the existence of pecula, with which the exphortia is said to abound, in as much as I consider myself great in competent to the art of veg stable analysis, I am compelled to verigo this part of the subject, without allowing it that accurate and lengthy investigation, which it really deserves in

I therefore beg to be excused in not being prepresently braid in the admiral examination in



The lettle opportunity of explaying a new mechanic to practice by the third med be known to many one who has equalities distribly the science of treatment ellections through the knowney of my principles. So Theophilus 6: Bessley of Solden I Berry, to when principles, So Theophilus 6: Bessley of Solden I Berry, to when principles and extention I on govern primount with the principles and the content of which were under the Declares immediate description. I will approve following the sold of the strength of the sold of

The following experiment gives entitled exprept for the purpose to be but you have been could for the corrections of these history or they were put to paper as they competed in

Wix pt 14 Staplember 5th 1826. Fifteen grains of the petersized uphorbia specae, were given to Mana Miller, aged about 25 Bed, labouring under was attack of arthma, unallended by fetule symptems, with which disease the had been frequently afflicted from childhood -At the time the took it, the parrayon had continued more than forty wight hourd, during greater part of which time the had bear imable from extreme sense of sufficiation to his down Inenty four hours previously to the exhibition of the exphortion iperan she had taken an emeter of collicocca specare anha. Shieh Speralid several times, but without relif. The coming before the had smoked the leaves of stoamonnin with a temporary delirum was induced, but without any abolement of the arthmetic symptoms . In half an hour after taking the weekerhia execut, it began without much previous nausea to romit her It furted several times as an ametic, discharging some bile, and four tiened as a cathactics in the accurace of as many hours, with signal relief to her respiration,

so much so she could readily hie in a recumbent porture,



though some whaying slitt continued, which have before off in their or four hands. For on the 26th of the same would she had not been a value of the decision.

Sant 24th 1828. The was perfectly free from arthura

Text. I. Sept- 5 ch 1826.

Belong Milliams, a submised invention, book their ground of the watery extenses in the form of a pale; until the head taken form of a partial country and found himse see a prough with considerable solving to have followed to have been prought on the opposite of disordered form the opposit of disordered form as he as a bounds.

Phr. 222, The Chempson, agest about the general affection with ographous of diseased beaver, with diseasem, is specificant be desimple one the spigesterium and sight hyperbandsons, book that following combination:

> Coloration eigher from gro j. Submirist by draw go j. Opinion myst grafter miple



Thus of the foregoing bind of fill to best per during for overed stay in societies, without per during any perspected named and some separate him, perhally by the reflective of the colonial in

Fix " I'm a Mrs. Alford, aged about Do years, babouring made a severe cold with lop of applies, and much difficulty in breathing, took through mustake (supposing it to be autimornial wine swarf un onne of the rinous timeture, at those done in the space of fiften minute. The effect was set find a slight naused, which por canded an easy experteration, and an uninterrupted and free respiration was the consequence - It appears in this case the done was too small to excite omiting, and I am inder some apprehension from the history of the following cases, whether or not this preparation is proposed of mucho of the souther principles III. I a child, aged about ten years, took an ormer of the svine in divided dorse, without producing any peraptible nause or measing at stomach; neither had it the slighted effect on the boweld -



A ... aged some year, look lin grows of the functioned supherbin chieses, which operated with better named device apreads, and four lines downwards ...

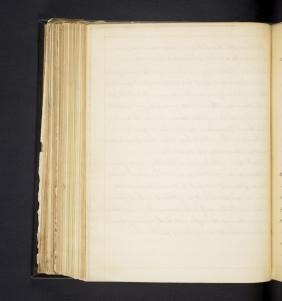
With the Described (127 I selected while a year of the days continues of the days continues, feel is got calends for a play, and is follow without affect to for these without affect . Capte and for a forty bound afterwards, it had begin found in feel in feel to give the several with the days of the several was a half in how afterwards the same door.



- two hours after this, it had one large enaunation from the bounds, ellended hat not presided by number ...

Lit It. Dat 1137 I from a get 30 game apaded with an intermetted which had continued which his confirmed a like hit of the stemach. The look 122 genis of the part cusphedu speak, it for look 122 genis of the part cusphedu speak, it produces seey little manua, and in the consend four bound of free bound of termes it operated those or four limes on his father had taken 30 deeps of landown about on home boylers the suppherlia.

the to the formation as black by age of years between ander constitut forms with occasional ability. The complained of distripted the Househ bornets bounds, when we directed to the total good of colonies, with so grains of parts suphorbin early in the coming. It is made in the suphorbin early in the coming, It is made in the morning of personal standards to make the support of t



If day informe can be descen from a persual of the Foregoing cases, I might appear;

Let the expherence ipiear in produce recasionally ant as an emotic .

2 moly. In der certain circumstance, or in continution with a pury ation of some time produces a cathactic effect.

3 wily. The extract when exhibited alone cornets and their purges -

4thy. The vinum ifeen in the common dare, seldom exits the stoward even to manera.

in journes even misseured by terms wither in the Martenia Markins that the mobile is object until by the certain in the prompted in fluence over the alimentary or and, intering market in fluence over the alimentary or they operate I have fluenced to day, but the coses which common war are most proposed to day, but the coses which common war are most proposed to the fluence the the the the the same and the most incoming but better databases, the most compression and the forther than a large way to be the thing the same of the potential to a state of the potential to a state of the potential to a state of the potential to the think of the potential to a state of the color of the country.



the attention of marked over, whom breatin and asyminants implied enable them he set pith it principates and plan it is not from light, the men es as of is partially desires at the juntime to be not from marked populs, that only toppy to the of our collisions of some marked plants, that only toppy against of our collisions of some collisions of some collisions of some above presentations of the formal formal productions of the formal formal continuing at further by health to adultivation.

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"if saw our toil ,

We right to blance the notions and the pile."

But before I disnife the subject, eller some to select any greatests acchained symmetry to sack and select of your the Before of the sundered definitional of the Mannesody of Busylesanies, for the nick theoretical and practical information, I have summed from your between in the Classics of a University.

The nick theoretical and practical information. Bushley, and Successfully in Classics.







